

The graphic features a light blue background with a subtle grid pattern. On the left side, there are stylized white icons of wind turbines, a city skyline, and a car, all set against a backdrop of overlapping circles and lines. The title 'Clean Energy Workforce Training Program' is written in a large, bold, dark teal font. The California Energy Commission logo is in the bottom right corner, and a green and yellow gradient bar is at the bottom.

Clean Energy Workforce Training Program

California Energy Commission



Alternative and Renewable Fuel and Vehicle Technology Program

Program Overview

Darcie Chapman
California Energy Commission
December 2, 2009

Alternative and Renewable Fuel and Vehicle Technology Program

Creation

Assembly Bill 118 (Nunez, Chapter 750, Statutes of 2007)

Purpose

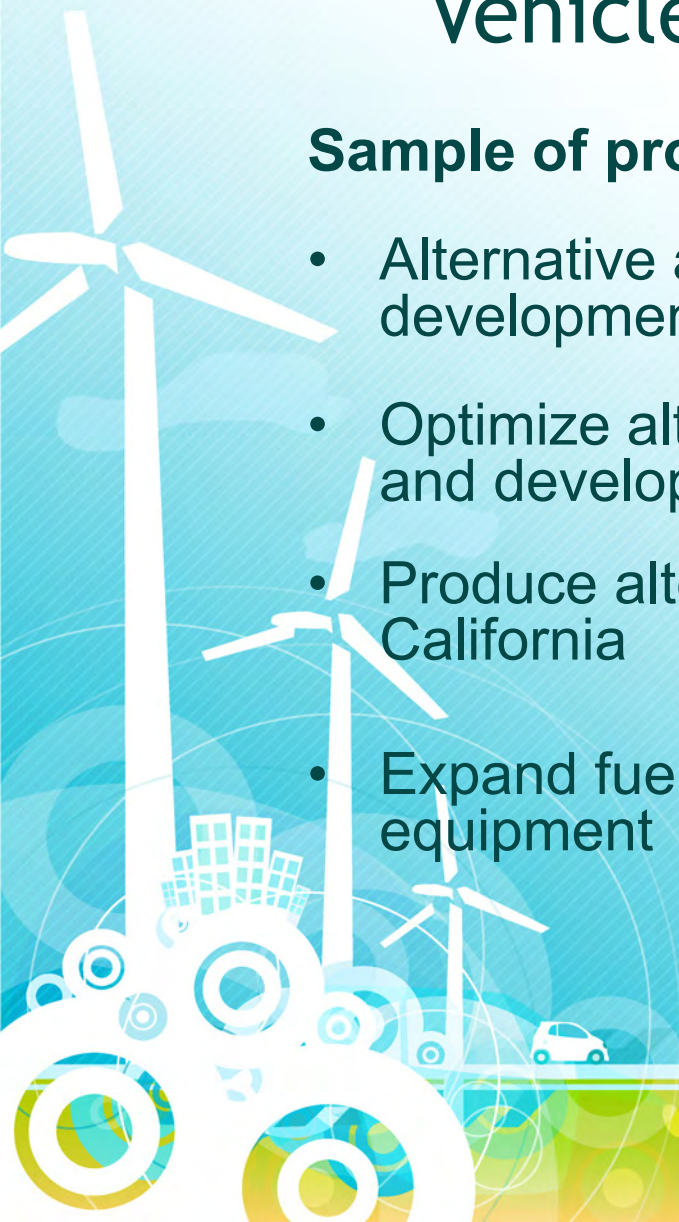
- Develop and deploy renewable alternative fuels and clean vehicle technologies into the marketplace
- Assist in attaining California's climate change policies



Alternative and Renewable Fuel and Vehicle Technology Program

Sample of projects eligible to receive funding include:

- Alternative and renewable low-carbon fuels development and improvement
- Optimize alternative and renewable fuels for existing and developing engine technologies
- Produce alternative and renewable low-carbon fuels in California
- Expand fuel infrastructure, fueling stations, and equipment



Alternative and Renewable Fuel and Vehicle Technology Program

Sample of projects eligible to receive funding (Continued)

- Improve light, medium, and heavy-duty vehicle technologies
- Retrofit medium and heavy-duty on-road and non-road vehicle fleets
- Decrease the overall impact and carbon footprint of alternative and renewable fuels and increase sustainability
- Establish workforce training programs, and create technology centers

Alternative and Renewable Fuel and Vehicle Technology Program

Project Funding Preferences

- Reduce lifecycle environmental impacts, including air and water pollution
- Decrease lifecycle greenhouse gas emissions by at least 10%
- Do not adversely impact the sustainability of the state's natural resources
- Use alternative fuel blends of at least 20 %
- Use existing or proposed fueling infrastructure
- Provide non-state matching funds
- Provide economic benefits for California
- Drive new technology advancement

Alternative and Renewable Fuel and Vehicle Technology Program

Non-Green House Reduction Funding Categories

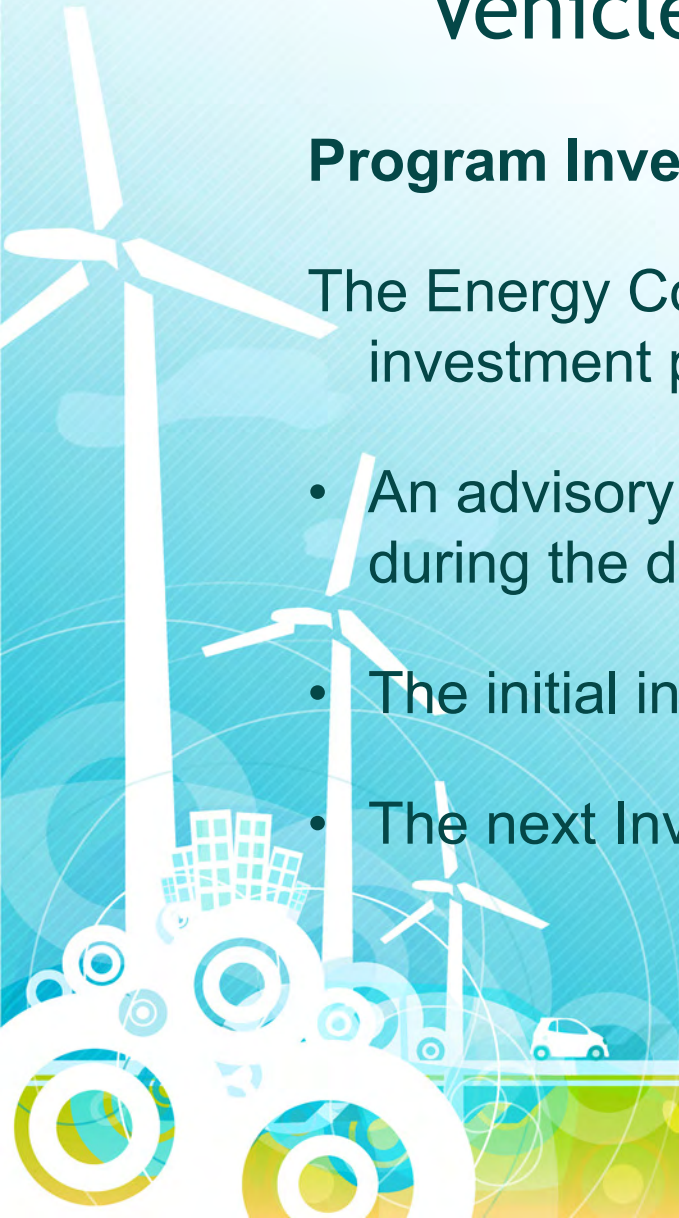
- Support development of sustainability best management practices, standards, verification programs, and technical research
- Co-fund programs to educate Californians on available fuel and clean vehicle options
- Fund analysis and program activities
- Support workforce training initiatives with employers, manufacturers, training programs, and government agencies

Alternative and Renewable Fuel and Vehicle Technology Program

Program Investment Plan

The Energy Commission is required to develop an investment plan to determine funding priorities.

- An advisory committee is formed to provide input during the development of each investment plan.
- The initial investment plan was adopted in April 2009
- The next Investment Plan is currently being developed



Alternative and Renewable Fuel and Vehicle Technology Program

Fuel / Technology	2-Year Funding Allocation (million)
Electric Drive	\$46
Hydrogen	\$40
Ethanol	\$12
Renewable Diesel/Biodiesel	\$6
Natural Gas (Includes \$10 M for Biomethane)	\$43
Propane	\$2
Market Development and Program Support	\$27
Total	\$176

www.energy.ca.gov

Alternative and Renewable Fuel and Vehicle Technology Program

AB 118 Cost Share for California ARRA Projects

CEC awarded \$37.25million in match-funding under the following categories:

Category	Project	CEC Funding Amount
Electric Drive	Medium and Heavy-Duty Hybrid Vehicle Demonstration	\$9 million
	Charging Stations	\$8.8 million
	Manufacturing Facilities	\$1 million
Ethanol	E-85 Fueling Stations	\$4 million
Natural Gas	Medium- and heavy Duty Vehicles for Ports, Schools, and Others	\$11.5 million
	Fueling Stations	\$2.4 million
Market Development		\$0.55 million

Alternative and Renewable Fuel and Vehicle Technology Program

Recently released funding opportunities

- **Program Opportunity Notices**
(PON-09-003, PON-09-004, PON-09-006)
- **Solicitation Packages**
 - Biomethane Production for Transportation - **PON-09-003**
 - Medium and Heavy-Duty Advance Vehicle Technology - **PON-09-004**
 - Alternative and Renewable Fuels Infrastructure - **PON-09-006**

Applicant Workshop December 15, 2009

www.energy.ca.gov

Alternative and Renewable Fuel and Vehicle Technology Program

Clean Transportation Workforce Development and Training

The transformation of California's large and complex petroleum-based fuels market, to one based on a diverse supply low-carbon renewable alternative fuels and clean vehicles, requires a well-trained workforce.

Workforce Development and Training Goals

- Develop a workforce strategy focused on addressing current and future industry needs
- Utilize California's existing network of workforce development agencies and organizations
- Establish partnerships with lead workforce development organizations

Alternative and Renewable Fuel and Vehicle Technology Program

Sample of workforce training eligible for funding:

- Alt & Renew Fuel Feedstock Production & Extraction
- Renewable Fuel Production
- Renewable Fuel Distribution
- Renewable Fuel Transport
- Renewable Fuel Storage
- High-Performance & Low Emission Vehicle Technology
- High Power Electronics
- Automotive Computer Systems
- Mass Transit Fleet Conversions
- Mass Transit Fleet Servicing and Maintenance and
- Other Sectors or Occupations Related to ARFVTP Purpose

Alternative and Renewable Fuel and Vehicle Technology Program

❖ Executed Agreements:

- Employment Development Department (\$4.5M)
 - Labor Market Data
 - California Workforce Investment Board – Industry Cluster development and implementation
 - Local workforce development and training delivery
 - Inform job seekers of training opportunities
 - Monitor trainee movement through the system, track and report training and employment results
- California Community College Chancellor's Office (\$4.5M)
 - ATTE: curriculum development, train the trainer, training delivery, and CC program implementation
 - COEs: Environmental Scans specific to clean transportation Industry

Alternative and Renewable Fuel and Vehicle Technology Program

EDD Clean Transportation Solicitation (CEWTP Category 3)

- Awarded Six Local Workforce Development and Training Grants
 - Sacramento Employment Training Agency - Green vehicle service industry
 - Imperial County - Bio-Fuel Production
 - San Francisco Department of Economic & Workforce Development – EV
 - Long Beach City – Green vehicle service industry
 - Richmond City - Green vehicle service industry
 - Los Angeles County – Alternative fuel and clean transportation

Alternative and Renewable Fuel and Vehicle Technology Program

California Workforce Investment Board

- Regional Industry Cluster(s) of Opportunity Solicitation

Significant Dates:

Event	Date
Solicitation Release	October 12, 2009
Proposals Due	December 3, 2009
Proposal review & evaluation	January 4-8, 2010
Award Announcements	January 21, 2010
Program Start Date	January 21, 2010

www.cwib.ca.gov

Alternative and Renewable Fuel and Vehicle Technology Program

❖ Inter-Agency Agreement in Development: Employment Training Panel (\$5M)

Clean transportation workforce training contracts

- The Employment Training Panel (ETP) is a business and labor supported state agency
- The ETP is a performance-based program
- The ETP contracts with employers, training agencies, vocational schools

We anticipate this inter-agency agreement will be in place Spring 2010

Alternative and Renewable Fuel and Vehicle Technology Program

For additional information, please contact:

- Darcie Chapman
916-651-0482
dchapman@energy.state.ca.us
- Pilar Magana
916-654-2222
pmagana@energy.state.ca.us
- Linda Schrupp
916-651-3002
lschrupp@energy.state.ca.us